

#232 Balsa Sheets



**Overview:** Our Balsa Sheets are a selected quality, kiln-dried end-grain balsa wood suitable for structural core material in composite sandwich construction. Each Sheet is surface primed, which will improve installation time and reduce resin absorption.

**Material Properties**

Quality		#232
Density	Kg/m <sup>3</sup>	155
ASTM C 271	Lb/ft <sup>3</sup>	9.7
Compressive Strength	MPa(+22°C)	12.7
ASTM C 365	Psi(+72°F)	1842
Compressive Modulus	MPa(22°C)	4100
ASTM C 365	Psi(72°F)	594500
Tensile Strength	MPa(+22°C)	13.5
ASTM C 297	Psi(+72°F)	1958
Shear Strength	MPa (+22°C)	3.0
ASTM C 273	Psi(+72°F)	435
Shear Modulus	MPa(+22°C)	166
ASTM C 273	Psi(+72°F)	24070

Nominal Moisture Content:	12%	
Coefficient of linear expansion (ASTM D-696):		
Longitudinal	1.1 x 10 <sup>-6</sup> /°C	2 x 10 <sup>-5</sup> /°F
Radial	8.0 x 10 <sup>-6</sup> /°C	4.6 x 10 <sup>-5</sup> /°F
Tangential	12.0 x 10 <sup>-6</sup> /°C	6.8 x 10 <sup>-5</sup> /°F

\*Shrinkage and swelling of wood due to moisture changes will overshadow thermal expansion.

The Balsa Cores are approved by all major marine classification societies including American Bureau of Shipping, Lloyd’s Register of Shipping, and Det Norske Veritas and Gemanischer Lloyd. Our type approvals mean these products are recognized and meet the physical and structural standards established by these classification societies.